



A.D. 1858, 17th JULY. N^o 1616.

S P E C I F I C A T I O N

OF

RICHARD ARCHIBALD BROOMAN.

APPARATUS FOR THE RECEPTION AND
TREATMENT OF SEWAGE.

LONDON:

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,
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A.D. 1858, 17th JULY. N° 1616.

Apparatus for the Reception and Treatment of
Sewage.

(This Invention did not proceed to the Great Seal.)

PROVISIONAL SPECIFICATION left by Richard Archibald Brooman at the Office of the Commissioners of Patents, with his Petition, on the 16th July 1858.—A communication.

I, RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of
5 London, E.C., Editor of the Mechanics' Magazine and Patent Agent, do hereby declare the nature of the said Invention for "IMPROVEMENTS IN APPARATUSES FOR THE RECEPTION OF FECAL AND SEWAGE MATTERS, AND IN THE TREATMENT OF FECAL MATTERS," (a communication from a foreigner residing abroad), to be as follows:—

10 This Invention consists in fixing an out-flow pipe leading to a drain or sewer or other outlet in or near the upper part of a barrel or vessel intended for the reception of fecal and sewage matters; in causing the precipitation therein of all solid matters; and in preparing such matters for manure. An empty barrel or reservoir is filled with lime water, or water with muriate or
15 other soluble salt of lime, and placed in the required situation. The barrel is closed at top, and the outside tubes leading the matters into, and liquid from it are packed and luted. The matters and liquids entering the barrel become decomposed under the action of the lime, and the heavy and solid matters are precipitated, and as they enter they drive out an equal quantity of water from
20 the out-flow pipe. Easy separation of the solid from the liquid substances will be obtained, and the precipitated matters being covered with water do not ferment, and consequently admit no bad odours. To treat these matters to be

Brooman's Impts. in Apparatuses for the Reception and Treatment of Sewage.

employed as manure, they are extracted from the barrels or reservoirs, and have added quicklime and a salt of lime, preference being given to sulphate of lime recently converted by baking into plaster, and the whole stirred until thoroughly mixed. Thus prepared, the substance is made into blocks in an ordinary brick machine, and then dried and reduced to powder, which may be 5 used as manure, or fresh stuff from the barrels or reservoirs may be mixed with it, to obtain a manure of the richness desired.

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Printers to the Queen's most Excellent Majesty. 1859.